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APPLICATION NO.	ÉLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/036,798	12/20/2001	Hidetaka Numata	9281-4256	5394
7590 07/20/2004		EXAMINER AWAD, AMR A		
Brinks Hofer Gilson & Lione				
P.O. Box 10395 Chicago, IL 60610		•	ART UNIT	PAPER NUMBER
			2675  DATE MAILED: 07/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)			
Office Action Summary		10/036,798	NUMATA ET AL.			
		Examiner	Art Unit			
		Amr Awad	2675			
Period fo	The MAILING DATE of this communication apports.	pears on the cover sheet with the c	orrespondence address			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reper population of the provision of the provision of the period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statutor the provision of th	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>07 N</u>	<u>May 2004</u> .	•			
2a)⊠	This action is FINAL. 2b) This action is non-final.					
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4) ☐ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-19 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	cepted or b) objected to by the Ee drawing(s) be held in abeyance. See ction is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority (	under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachmen	t(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		atent Application (PTO-152)			

Art Unit: 2675

### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 5-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The recitations "the ball" and "the pin" in claim 5 lack antecedent basis, which make the claim indefinite. Claim 6 recites, "the at least two ball and pins—lacks antecedent basis, which makes the claim indefinite. Also claim 1 recites "at least one of a ball and a pin—indicates that there is at least one ball and one pin is positioned, while claim 6 recites "the at least two balls and pins <u>is</u>" which shows that there is only one ball or pins is used. Examiner respectfully requests a correction of explanation.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Levin et al. (US patent NO. 6,154,201; hereinafter referred to as Levin).

Art Unit: 2675

As to independent claim 1, Levin (figure 1) teaches a manual input device (10) that includes a knob (18), feeling providing device, which has at least two kinds of feeling patterns (col. 7 lines 58-65 and 8, lines 3-23), and an actuator (by pushing the knob 18) which positions at least one of a ball (84) and pin (50) elastically forced to contact the one of the disc (col. 12, lines 26-56), and cylinder which activates the feeling providing device and change an operation feeling given to the knob (col. 8, lines 3-8).

As to claim 2, Levin teaches having the knob manipulated by linear movement (col. 4, lines 25-29).

As to claims 3-4, as can be seen from figure 1, Levin shows rotation movement by the knob 18 (col. 5, lines 47-51).

As to claim 5, Levin (figures A, 3B and 4A) teaches that the device includes one disc (52) and cylinder (70), which bears plural feeling patterns (54) and is fixed to control shaft (50) to be manipulated by the knob (18) (col. 8, lines 30-64), and one of a ball (84) and pin (50) elastically forced to contact the one of the disc and cylinder, and wherein the actuator (70) linearly reciprocates the one of the ball and pin in a direction where the plural feeling are arranged (col. 12, lines 26-56).

As to claim 6, the different between claims 6 and 5 is that claim 6 recites having a disc and cylinder, which has a single feeling pattern. As can be seen in figure 5, the other knob fairly reads on the claimed limitation (col. 14, lines 5-27).

As to claim 7, Levin (figures A, 3B and 4A) teaches that the device includes one disc (52) and cylinder (70), which bears plural feeling patterns (54) and is fixed to control shaft (50) to be manipulated by the knob (18) (col. 8, lines 30-64)

Art Unit: 2675

As to claim 8, Levin (figure 1) teaches a manual input device (10) that includes a knob (18), feeling providing device, which provides the knob with an operation feeling (col. 7, lines 58-65 and col. 8 lines 3-23), and an actuator (by pushing the knob 18), which activates the feeling-providing device (col. 8, lines 3-8). Levin teaches a detector (sensor 214 in fig. 8) for detecting the operating condition of the knob, and an input/output section, which exchanges signals with an external device, controlled by the knob, wherein the actuator is controlled according to a control signal generated based on an external signal from an external detector connected at least with the external device (col. 8, line 65 through col. 9, line 12).

As to claims 9-14; these claims are substantially similar to the apparatus of claims 2-7 and would be analyzed as previously discussed with respect to claims 2-7.

As to claims 15-17, the claims are substantially similar to the device of claims 1-7 and would be analyzed as previously discussed with respect to claims 1-7.

As to claims 18-19, the claims are substantially similar to claims 1-7 above except that claims 18-19 further recite a car-mounted apparatus. Levin teaches that the device is used inside a car (col. 7, line 66 through col. 8, line 22).

## Response to Arguments

5. Applicant's arguments filed May 7, 2004 have been fully considered but they are not persuasive.

Applicant (page 8) argued that Levin is quite different from mechanically positioning the ball or a pin in elastic opposition to feeling providing device. Examiner

Art Unit: 2675

respectfully disagrees. First, the citation of having a ball or pin <u>mechanically</u> positioned <u>in elastic opposition</u> to feeling providing device is not claimed in claim 1 in the way presented in the argument. There is no mentioning of the term "mechanically" or the term "elastic opposition". Secondly, the examiner clearly shows in the rejection above that Levin shows both the pin and the ball as being part of the device.

Applicant (page 9) argued that claim 19 depends on claim 1, and therefore, allowed because it depends on an allowable base claim. However, claim 19 is an independent claim. Applicant also argued that the operator must provide the force, while the Operator action is not an integral part of the structure. The examiner respectfully submits that using the action of the operator in Levin's device does not preclude the use of Levin to reject the claimed invention.

#### Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2675

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

Page 6

examiner should be directed to Amr Awad whose telephone number is (703)308-8485.

The examiner can normally be reached on Monday through Fridary from 9:30 AM to

6:00 PM.

7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Razavi can be reached on (703)305-4713. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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7-16-2004

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